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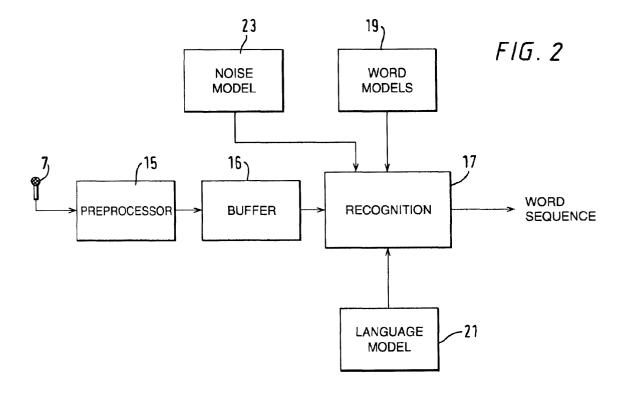
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## (54) Speech processing apparatus and method

(57) An apparatus is provided for checking the consistency between two training words which can be used in, for example, a speech recognition or verification system. Two training examples are aligned using a dynamic programming alignment process and an average frame

score is calculated from the alignment results together with the worst score in a number of consecutive frames. These values are then compared with similar values obtained from training examples which are known to be consistent to determine if the training examples are consistent.





## **EUROPEAN SEARCH REPORT**

Application Number EP 99 30 8166

Category	Citation of document with in of relevant pass:	dication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
А	PAL A ET AL: "Effect the convergence of A remedy" INFORMATION SCIENCE vol. 60, no. 1-2, XP000965682 ISSN: 0020-0255 * the whole document	1,6,7,12	g10L15/06	
A	INTERNATIONAL CONFE	IN SPEECH RECOGNITION" RENCE ON ACOUSTICS, CESSING. ICASSP,US,NEW  1982 (1982-05-03), 2067894	1-3,6-9,	
P,A	US 6 012 027 A (BOS 4 January 2000 (200 * abstract; figures	0-01-04)	1,6,7, 12-14	TECHNICAL FIELDS SEARCHED (Int.CI.7)
A,P	DE 198 04 047 A (DEUTSCHE TELEKOM AG;DEUTSCHE TELEKOM MOBIL (DE)) 5 August 1999 (1999-08-05) * abstract *		4,10,13, 14	G10L
A,D	EP 0 789 349 A (CAN 13 August 1997 (199 * abstract *		5,11,13, 14	
	The present search report has l	<u> </u>		
Place of search THE HAGUE		Date of completion of the search  27 November 2000	Qué	Examiner Élavoine, R
X : par Y : par doc	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anotument of the same category inological background	T : theory or princip E : earlier patent do after the filing da her D : document cited L : document cited f	ocument, but pub te in the application	lished on, or

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 8166

This annex lists the patent family members relating to the patent documents cited in the above–mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

27-11-2000

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 6012027	Α	04-01-2000	AU EP WO AU WO	9106898 A 1019904 A 9913456 A 7570298 A 9854695 A	29-03-19 19-07-20 18-03-19 30-12-19 03-12-19
DE 19804047	Α	05-08-1999	WO EP	9940570 A 1051702 A	12-08-19 15-11-20
EP 0789349	Α	13-08-1997	JP US	9244686 A 5960395 A	19-09-19 28-09-19

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82